CONTENTS OF *VETERINARY PARASITOLOGY*, VOLUME 27

VOL. 27 NOS. 1–2 FEBRUARY 1988

Preface 1
Systematics of the nematodes that cause ostertagiasis in cattle, sheep and goats in North America
J.R. Lichtenfels, P.A. Pilitt (Beltsville, MD, U.S.A.) and M.B. Lancaster (Weybridge, Gt. Britain) 3
Aspects of the biology of *Ostertagia ostertagi* in relation to the genesis of ostertagiasis
N. Anderson (Parkville, Vic., Australia) 13
Epidemiology of *Ostertagia ostertagi* in warm temperate regions of the United States
J.C. Williams (Baton Rouge, LA, U.S.A.) and J.W. Knox (Bossier City, LA, U.S.A.) 23
The epidemiology of bovine ostertagiasis in the north temperate regions of North America
H.C. Gibbs (Orono, ME, U.S.A.) 39
Control of *Ostertagia ostertagi* infections in Australia
N. Anderson (Parkville, Vic., Australia) 49
Epidemiology and control of bovine ostertagiasis in South America
C. Entrocasso (Balcarce, Argentina) 59
Economics of deworming beef cattle
R.E. Bohlender (North Platte, NE, U.S.A.) 67
Mathematical models of the population biology of *Ostertagia ostertagi* and *Teladorsagia circumcincta*, and the economic evaluation of disease control strategies
G. Smith and D.T. Galligan (Kennett Square, PA, U.S.A.) 73
Experimental infections of *Ostertagia ostertagi* in goats
J.C. Williams (Baton Rouge, LA, U.S.A.) 85
Drug resistance in ostertagiasis
G.C. Coles (Amherst, MA, U.S.A.) 89
Anthelmintics and control
R.K. Prichard (Ste. Anne de Bellevue, Que., Canada) 97
Control strategies for ostertagiasis
R.P. Herd (Columbus, OH, U.S.A.) 111
Importance of diagnostic aspects in ostertagism
N.F. Baker (Davis, CA, U.S.A.) 125
Evaluation of abomasal enzyme and hormone levels in the diagnosis of ostertagiasis
T.W. Schillhorn van Veen (East Lansing, MI, U.S.A.) 139
Preliminary report: immunodiagnosis of pre-Type II ostertagiasis
D.A. Cross, P.H. Klesius (Auburn, AL, U.S.A.) and J.C. Williams (Baton Rouge, LA, U.S.A.) 151
Immunity to *Ostertagia ostertagi*
P.H. Klesius (Auburn, AL, U.S.A.) 159
Sequential histopathologic changes of Type I, pre-Type II and Type II ostertagiasis in cattle
T.G. Snider III, J.C. Williams, J.W. Knox, K.S. Marbury, C.H. Crowder and E.R. Willis (Baton Rouge, LA, U.S.A.) 169
Summation and recommendation for research
R.B. Wescott (Pullman, WA, U.S.A.) 181

VOL. 27 NOS. 3–4 MARCH 1988

Epizootiology of *Eimeria ahsata* Coccidiosis in León (Spain)
M.R. Hidalgo-Argüello and M. Cordero-Del-Campillo (León, Spain) 183
Further characterization of the biology of *Hammondia Heydorni*
B.L. Blagburn, D.S. Lindsay, L.J. Swango, G.L. Pidgeon, and K.G. Braund (Auburn, AL, U.S.A.) 193
Relapses in dogs experimentally infected with *Trypanosoma brucei* and treated with diminazene aceturate or isometamidium chloride
E. Kaggwa (Zaria, Nigeria), W.K. Munyua and G.M. Mugera (Nairobi, Kenya) 199
The pathogenenis of *Babesia motasi* (Wales) infection in sheep
A.J. Alani and I.V. Herbert (Bangor, Gwynedd, Gt. Britain) 209
The effects of *Sarcocystis miescheriana* infections on blood enzymes and weight gain of stress-sensitive and stress-insensitive pigs
A. Daugschies, T. Schnieder, M. Rommel and K. Bickhardt (Hannover, F.R.G.) 221
Effects of *Sarcocystis miescheriana* infection on carcass quality and on the water binding capacity of the meat of halothane-tested fattening pigs
A. Daugschies, M. Rommel, T. Schnieder (Hannover, F.R.G.), M. Henning and E. Kallweit (Mariensee, F.R.G.) 231
The pathogenicity and immunologic relationship of a virulent and a tissue-culture adapted *Babesia bovis*
K.L. Kuttler (College Station, TX, U.S.A.), J.L. Zaugg (Caldwell, ID, U.S.A.) and C.E. Yunker (Harare, Zimbabwe) 239
The oxidant defence system in water-buffaloes (*Bubalus bubalis*) experimentally infected with *Anaplasma marginale*
G.R. Reddy, T. More, S.P. Sharma and L.N. Singh (Izatnagar, India) 245
Antibody development and cellular immune responses in sheep immunized and challenged with *Sarcocystis tenella* sporocysts
P.J. O'Donoghue and R.G. Wilkinson (Adelaide, S.A., Australia) 251
Treatment of experimentally induced *Theileria annulata* infection in cross-bred calves with Buparvaquone
S. Dhar, D.V. Malhotra, C. Bhushan and O.P. Gautam (Haryana, India) 267
A comparison of two proteolytic techniques for hatching *Hymenolepis diminuta* eggs
S.O. Afedia and A.F. Ogunrinade (Ibadan, Nigeria) 277
Sero-diagnosis of *Fasciola hepatica* infections in cattle
I.J. Sinclair and D.A. Wassall (Weybridge, Gt. Britain) 283
Relationship of nematode cholinesterase activity and nematode burdens to the development of resistance to Trichostrongyle infections in sheep
P.G.C. Douch, G.B.L. Harrison, L.L. Buchanan and K.S. Greer (Upper Hutt, New Zealand) 291
A routine diagnostic assay for the detection of benzimidazole resistance in parasitic nematodes using tritiated benzimidazole carbamates
E. Lacey and K.L. Snowdon (Glebe, N.S.W., Australia) 309
Grazing pressure and acquisition of *Ostertagia ostertagi* in calves
P. Nansen, A.A. Henriksen, R.J. Jørgensen (Frederiksberg, Denmark), J. Foldager (Ørum, Denmark) and J.W. Hansen (Blacksburg, VA, U.S.A.) 325
A rapid microassay for dirofilarial antibodies by using antigen-coated nitrocellulose paper
K. Matsumura, Y. Kazuta, R. Endo, K. Tanaka, T. Inoue (Yamaguchi, Japan) and H. Matsuda (Fukuyama, Japan) 337
The prophylactic effect of ivermectin treatments on gastrointestinal helminthiasis of calves turned out early on pasture or late on mown pasture
M. Eysker, F.N.J. Kooyman and R. Wemmenhove (Utrecht, The Netherlands) 345

Short Communications

Prevalence of *Sarcocystis* cysts in pigs and sheep in Spain
A. Pereira and M. Bermejo (Santiago de Compostela, Spain) 353
Ticks parasitising the Indian Buffalo (*Bubalus bubalis*) and their possible role in disease transmission
G.S. Miranpuri (Izatnagar, India) 357